

CLAIMS

1. A vaccine comprising a Sendai virus vector encoding a virus protein of an immunodeficiency virus.

5 2. The vaccine of claim 1, wherein the virus protein comprises Gag protein or a part of it.

3. The vaccine of claim 1, wherein the Sendai virus vector is defective in V gene.

4. The vaccine of claim 2, wherein the Sendai virus vector 10 is defective in V gene.

5. A method for vaccination, the method comprising inoculating a vaccine comprising a Sendai virus vector encoding a virus protein of an immunodeficiency virus.

6. The method of claim 5, wherein the vaccine is 15 inoculated by intranasal administration.

7. The method of claim 5, wherein the vaccine is inoculated at least once in multiple vaccine inoculation.

8. The method of claim 6, wherein the vaccine is inoculated at least once in multiple vaccine inoculation.

20 9. The method of claim 7, wherein the method comprises the steps of (a) inoculating a DNA vaccine and then (b) inoculating the Sendai virus vector encoding a virus protein of an immunodeficiency virus.

25 10. The method of claim 8, wherein the method comprises the steps of (a) inoculating a DNA vaccine and then (b) inoculating the Sendai virus vector encoding a virus protein of an immunodeficiency virus.

30 11. A method for inducing cellular immune response specific to a virus protein of an immunodeficiency virus, the method comprising the steps of (a) introducing a Sendai virus vector encoding a virus protein of an immunodeficiency virus into an antigen presenting cell and (b) contacting the antigen presenting cell with a T helper cell and a cytotoxic T cell.